ABSTRACT

Tri Widiah Febreana, *Analysis of Sodium Cyclamate in Lemonade Drinks Distributed in Paiton District Using Gravimetric Methods*. Supercisior : apt. Nurma Sabila, S.Farm., M.S.Farm.

Sodium cyclamate is an artificial sweetener with a sweetness intensity of 30 times that of sucrose. This intensity encourages people to use artificial sweeteners. Cyclamate must not exceed the limits regulated in BPOM Regulation No.11 of 2019. The permitted cyclamic acid level limit for flavored water-based drinks is 350 mg/kg. However, until now, there are still individuals who add cyclamate to drinks at levels that exceed the required limits. Therefore, this research aims to determine whether the levels of sodium cyclamate contained in lemonade drinks sold in the Paiton District meet the requirements of BPOM Regulation No.11 of 2019 using the gravimetric method. The determination of levels using the gravimetric method is carried out by the precipitation method based on SNI-01-2893-1992. Then, the precipitate is heated to a constant weight, and the cyclamate content is calculated. The results of this research showed that the samples that were positive for containing cyclamate were sample 1 and sample 4. The levels of sodium cyclamate as cyclamic acid in these samples were 6,503.59 mg/kg and 8,050.16 mg/kg, respectively. This result shows that the cyclamate level in the sample exceeds the maximum limit by BPOM Regulation No.11 of 2019, namely 350 mg/kg as cyclamic acid in the flavored drinks category.

Keywords: Sodium Cyclamate, Lemonade, Gravimetry